

# TRANSMISSION CIRCUIT FOR A DIGITAL COMMUNICATION SYSTEM

## Abstract

A transmission circuit for realizing a rate adaptation layer of a digital communication system. The transmission circuit includes a processor and a format conversion circuit. The processor is capable of managing transmission rates of input and output digital signals of the digital communication system. The format conversion circuit includes a plurality of input units and output units; each input unit is for receiving a bit according to the input digital signal, and each output unit is for transmitting a bit to form the output signal. Each input unit and output unit are connected by hardware wires to realize data formatting such as bit-reordering, command insertion.